

Engineering Referral Response

Application Number:	DA2023/0199
Proposed Development:	Demolition works and the construction of a dwelling house
Date:	12/04/2023
To:	Clare Costanzo
Land to be developed (Address):	Lot 32 DP 15141 , 5 Ross Street NORTH CURL CURL NSW 2099

Reasons for referral

This application seeks consent for the following:

- New Dwellings or
- Applications that require OSD where additional impervious area exceeds 50m² or
- Alterations to existing or new driveways or
- Where proposals affect or are adjacent to Council drainage infrastructure incl. watercourses and drainage channels or
- Torrens, Stratum and Community Title Subdivisions or
- All new Commercial and Industrial and RFB Development with the exception of signage or
- Works/uses in flood affected areas

And as such, Council's development engineers are required to consider the likely impacts on drainage regimes.

Officer comments

The application seeks consent for demolition works and the construction of a dwelling house.

Access

The proposed garage requires reconstruction of the existing vehicle crossing. The new vehicle crossing is to be 3.5m wide at layback and 3.85m wide at boundary. Driveway profile must be in compliance with Council's standard vehicle crossing profiles - Normal. Driveway must be a minimum of 2m from the existing tree (T1) located within the Council road reserve. Proposed new vehicle crossing is satisfactory, subject to conditions.

Stormwater

The subject site falls towards the SE property boundary. The stormwater management plan, prepared by VNK Consulting dated 8/09/2022, proposes that stormwater captured from the roof is directed into an Onsite Stormwater Detention (OSD) system, which discharges stormwater at the kerb in Ross Street. The stormwater outlet to kerb must be gravity fed with a minimum longitudinal fall of 1% out to street. Stormwater outlet to kerb must not impact SRZ of the existing tree (T1) located within the Council road reserve, project arborist to confirm location of outlet onsite. The stormwater management plan also proposes a stormwater inlet pit located near the NW property boundary, which discharges stormwater via a level spreader at the rear of the property. Proposed level spreader must comply with the requirements in Appendix 4 of Council's Water Management for Development Policy. The flood study report prepared by VNK Consulting, dated 16/12/2022 is noted.

No objections to proposal, subject to conditions.

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Engineering Conditions:

**CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION
CERTIFICATE**

On-site Stormwater Detention Details

The Applicant is to provide a certification of drainage plans detailing the provision of on-site stormwater detention in accordance with Northern Beaches Council's Water Man

agement for Development Policy, and generally in accordance with the concept drainage plans prepared by VNK Consulting, Drawing No 080922-01 Rev B, dated 5/02/2023. Detailed drainage plans are to be prepared by a suitably qualified Civil Engineer, who has membership to Engineers Australia, National Engineers Register (NER) and registered in the General Area of Practice for civil engineering.

The drainage plans must address the following:

- i. Stormwater outlet to kerb must be gravity fed with a minimum longitudinal fall of 1% out to street
- ii. Stormwater outlet to kerb must not impact SRZ of the existing tree (T1) located within the Council road reserve, project arborist to confirm location of outlet onsite
- iii. Level spreader must comply with the requirements in Appendix 4 of Council's Water Management for Development Policy
- iv. Level spreader must be parrallel to contours

Detailed drainage plans, including engineering certification, are to be submitted to the Certifying Authority for approval prior to the issue of the Construction Certificate.

Reason: To ensure appropriate provision for disposal and stormwater management arising from development.

Vehicle Driveway Gradients

The Applicant is to ensure driveway gradients within the private property are not to exceed a gradient of 1 in 4 (25%) with a transition gradient of 1 in 10 (10%) for 1.5 metres prior to a level parking facility. Access levels across the road reserve are to comply with the allocated vehicle profile detailed in this consent.

Details demonstrating compliance are to be submitted to the Certifier for approval prior to the issue of the Construction Certificate.

Reason: To ensure suitable vehicular access to private property.

Vehicle Crossings Application

The Applicant is to submit an application for driveway levels with Council in accordance with Section 138 of the Roads Act 1993. The fee associated with the assessment and approval of the application is to be in accordance with Council's Fee and Charges.

An approval is to be submitted to the Certifier prior to the issue of the Construction Certificate.

Reason: To facilitate suitable vehicular access to private property.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Road Reserve

The applicant shall ensure the public footways and roadways adjacent to the site are maintained in a safe condition at all times during the course of the work.

Reason: Public safety.

Vehicle Crossings

The Applicant is to construct a vehicle crossing 3.5 metres wide at layback and 3.85 metres wide at boundary in accordance with Northern Beaches Council's Standard Vehicle Crossing Profile - Normal and the driveway levels application approval. An Authorised Vehicle Crossing Contractor shall construct the vehicle crossing and associated works within the road reserve in plain concrete. All redundant laybacks and crossings are to be restored to footpath/grass. Prior to the pouring of concrete, the vehicle crossing is to be inspected by Council and a satisfactory "Vehicle Crossing Inspection" card issued.

A copy of the vehicle crossing inspection form is to be submitted to the Certifier.

Reason: To facilitate suitable vehicular access to private property.

CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE OCCUPATION CERTIFICATE

Positive Covenant and Restriction as to User for On-site Stormwater Disposal Structures

The Applicant shall lodge a Legal Documents Authorisation Application with Council. The application is to include the original completed request forms (NSW Land Registry standard forms 13PC and/or 13RPA) and a copy of the Works-as-Executed plan (details overdrawn on a copy of the approved drainage plan by a Registered Surveyor) and Hydraulic Engineers' certification for the completed on-site stormwater detention system works. A guide to the process can be found on Council's website using the following link.

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/pdf-forms/legal-documents-authorisation-on-site-stormwater-detention-systems/guide-submitting-ldaa-nov19.pdf>

The form for the application can be found on Council's website using the following link.

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/pdf-forms/legal-documents-authorisation-on-site-stormwater-detention-systems/4023-legal-documents-authorisation-oct19.pdf>

The Applicant shall create on the Title a positive covenant in respect to the ongoing maintenance and restriction as to user over the on-site stormwater detention system within this development consent. The terms of the positive covenant and restriction are to be prepared to Council's standard requirements at the applicant's expense and endorsed by Northern Beaches Council's delegate prior to lodgement with the NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such covenant. A copy of the certificate of title demonstrating the creation of the positive covenant and restriction as to user for the on-site stormwater detention system is to be submitted.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of final Occupation Certificate.

Reason: To ensure the on-site stormwater detention system is maintained to an appropriate operational standard and not altered.